



Name: _____
Mr. Tiénou-Gustafson & Mr. Bielmeier
Geometry, Period _____
Due Date: Wed, 15 Apr 2015

HW134 Big Rocks review

**Geometry
Homework**

The last Lines Big Rock is tomorrow! If you have three 5/5 scores, you can skip the beginning review section below & go to the back. Everyone else, study up!

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| <p>1.</p> <p>Calculate the slope of the line that passes through the origin and (3,9) in the standard (x,y) coordinate plane.</p> <p>A. -3 $\text{slope} = \frac{\Delta y}{\Delta x} = \frac{y_1 - y_2}{x_1 - x_2}$</p> <p>B. $-\frac{1}{3}$</p> <p>C. 0</p> <p>D. $\frac{1}{3}$</p> <p>E. 3</p> | <p>2.</p> <p>All of the lines below lie in the standard (x,y) coordinate plane. Which of the following lines does NOT have the same slope as the others?</p> <p>A. $y = 4x - 17$</p> <p>B. $2y - 8x = 3$</p> <p>C. $12x = 3y + 8$</p> <p>D. $7 = y - 4x$</p> <p>E. $2x - 4y = 18$</p> <p><i>rewrite all in $y = mx + b$</i></p> |
| <p>3.</p> <p>In the standard (x,y) coordinate plane, line a has a slope of -2. Which of the following equations describes a line that is perpendicular to line a?</p> <p>A. $6y + 3x = 3$</p> <p>B. $2y - x = 17$</p> <p>C. $2x + y = 21$</p> <p>D. $y = -2x - 5$</p> <p>E. $15 = 4x + 2y$</p> <p><i>opposite reciprocal</i></p> | <p>4.</p> <p>Write the equation of a line, in slope-intercept form, that passes through the points (4,-3) and (2,-2) in the standard coordinate plane?</p> <p>① find m</p> <p>② plug m and ordered pair in $y = mx + b$</p> <p>③ solve for b</p> |
| <p>5. The midpoint of XZ is M(1, 2). One endpoint is X(0, -2). Find the coordinates of endpoint Z.</p> <p>① write formula for midpoint</p> <p>② make sure you don't use midpoint coordinates as endpoint coordinates!</p> | <p>6. What is the slope-intercept form of $8x - y - 6 = 0$?</p> |

7. What is 4% of 1,100?

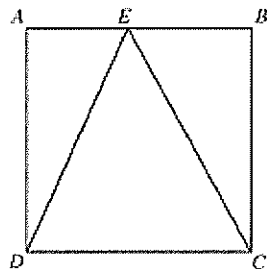
- a. 4
- b. 4.4
- c. 40
- d. 44
- e. 440

8. On September 1, a dress was priced at \$90. On October 1, the price was reduced by 20%. On November 1, the price was further reduced by 25% of the October 1 price and marked FINAL. What percent of the original price was the FINAL price?

- a. 40%
- b. 45%
- c. 55%
- d. 60%
- e. 77.5%



If the area of square $ABCD$ shown below is 64 square inches, and E is on \overline{AB} , what is the area of $\triangle ECD$ in square inches?

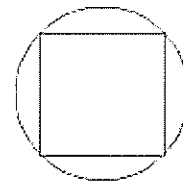


- F. 32
- G. 36
- H. 42
- J. 48
- K. 50

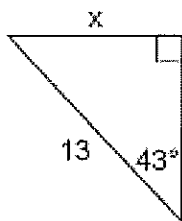


In the figure below, a square is inscribed in a circle with a radius of 10 inches. What is the area, in square inches, of the square?

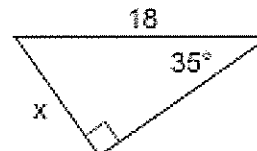
- F. 30
- G. 45π
- H. 50
- J. 50π
- K. 200



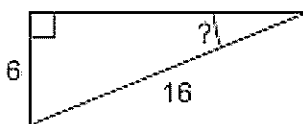
11. Find the missing side length



12. Find the missing side length



13. Find the missing angle *Think inverse trig*



14. Find the missing angle *Think inverse trig*

